Strato Evo RFID User Manual

Table of Contents

1. INTRODUCTION

The high grade of intelligence and flexibility behind Programmable LED drivers and the "Living Energy" philosophy adopted by EFORE, permitted us to develop the most innovative, flexible and "environmentally friendly" constant current LED drivers.
The aim of Efore programmable LED drivers and ROALset-single software is to meet the latest technological requirements in terms of flexibility, energy saving and light optimization. Using these programmable features, lighting manufacturers are now free to personalize the drivers to help make their products unique.
The PC software used wireless (RFID) tools to program the Efore programmable LED drivers. Wireless programming is accomplished with the driver unpowered, either as a single unit, or multiple units while still in the multi pack shipping container. The table below (Table A) summarizes the programming tools and features which can be programmed using the software.

Table A

Programming Tools and Features		Strato Evo 40		
		S-Case	D-case analog	D-case digital
Programming Tools				
Wired	Analog Programming Tool RHPS354 RSOZ070-PTOOL	✓	✓	
Wired	DALI Programming Tool RHPS368 RSOZ070-PDALI			✓
Wireless	Single Unit RHPS465A ROALSET-Single	✓	✓	✓
Wireless	Multiple Unit RHPS465 ROALSET-Multi	✓	✓	✓
Features				
Driver Settings				
Output Current Settings		✓	✓	✓
Fade Time		✓	✓	
0-10 Dimming Type		✓	✓	
PUSH-STEP Selection			✓	
PUSH Recovery Status			✓	
Adjustable Dimmer				✓
Constant Light Output				✓

The "Driver Settings" function lets the user set the main parameters of the LED Driver such as Iout, Fade time, DALI/PWM and multiple dimming options, permitting the driver to adapt to a variety of possible final installations/applications.

2. MINIMUM PC REQUIREMENTS AND LICENSE AGREEMENT

1. Operating System: Windows XP SP3 / Windows Vista / Windows 7/Windows 10 (x64 only)
2. Microsoft.NET Framework 4 Client Profile (x64)
3. The PC Software is the property of EFORE S.p.a. and is managed and distributed only by EFORE.

- The PC Software can be installed in any number of computers
- The software file cannot be modified in any way
- The software may be sold exclusively by EFORE S.p.a. or its authorized distributors

The PC software and related documentation are provided without any kind of warranty. This software does not warrant that its functions or documentation will meet your requirements, or that the software operation will be error-free or complete, or that defects in the software or documentation will be corrected.

Under any circumstances, including negligence, the PC Software and related documentation shall not be liable for any lost revenue or profits or any incidental, indirect, special, or consequential damages that result from the use, or inability to use, the Software or related documentation.

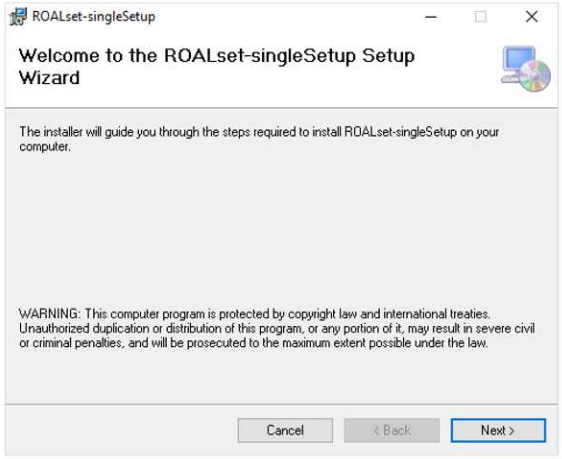
3. SOFTWARE INSTALLATION PROCEDURE

1. Download the software from link: ??????? CDI

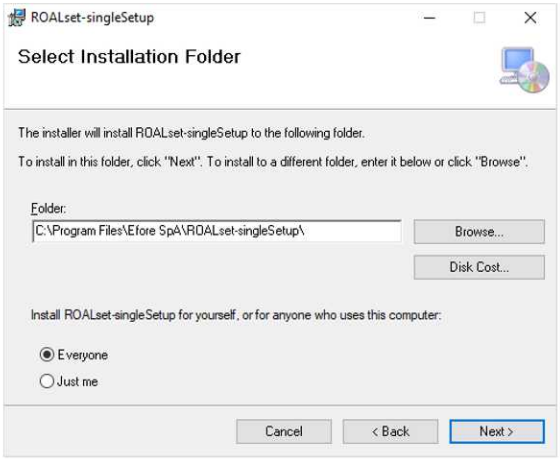
2. Unzip “ROALset-single x.x.x Setup.zip" in your dedicated PC folder. Two files will be generated: “ROALset-singleSetup.msi“ and “Setup.exe”.
3. Execute “ROALset-singleSetup.msi“

It is required to install the “Microsoft .NET Framework 4 Client Profile” in your PC system. If it is already installed in your computer, the procedure will automatically continue.
If not, the installation procedure will download it directly from the Microsoft website (this could take several minutes and it may require a system restart).

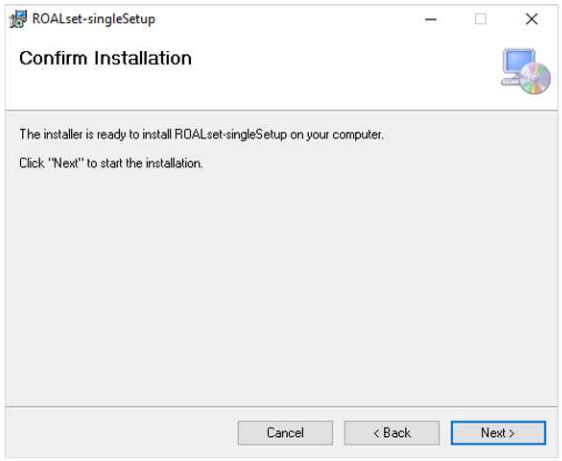
4. Once the Microsoft .NET Framework 4 software is installed (or skipped if already present), click “install” and run thefollowing wizard.



01: Select ‘Next’

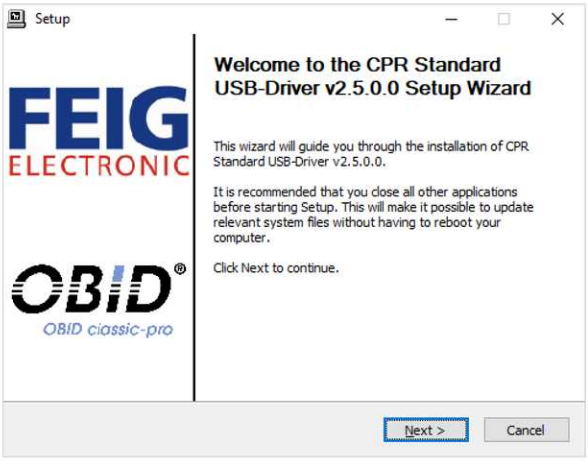


02: Select ‘Next’

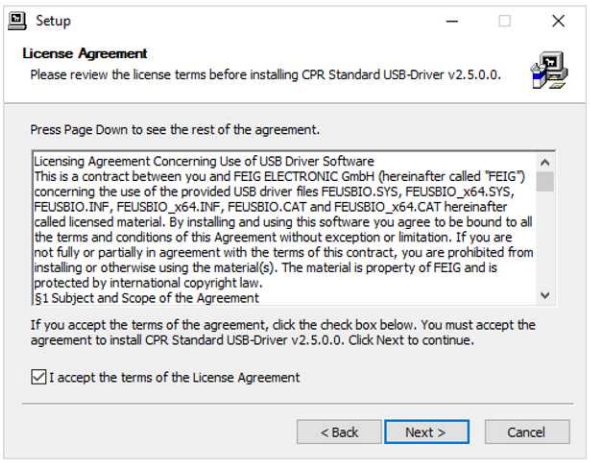


03: Select ‘Next’

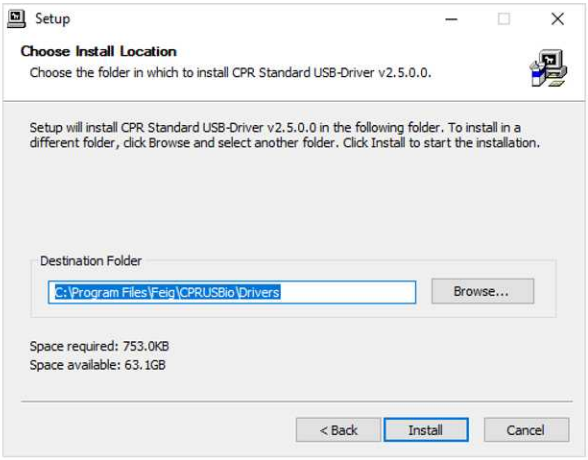
5. Automatically the Usb device drivers for both FEIG RFID, Roalset_Single and Roalset_Multi, will start:



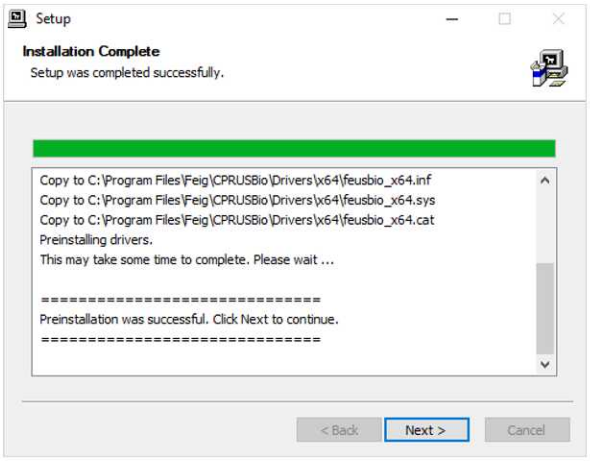
04: Select 'Next'



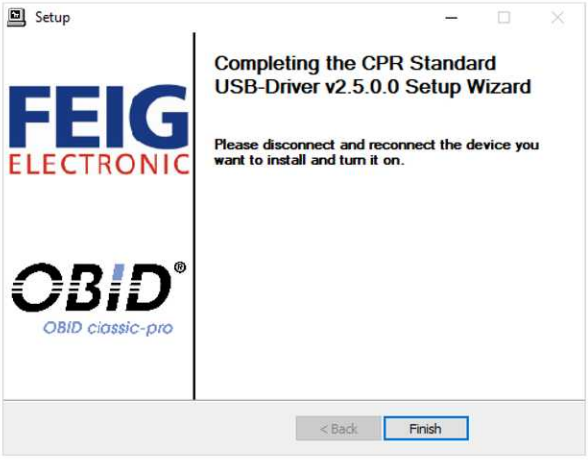
05: Tick the terms of license and Select 'Next'



06: Select 'Install'

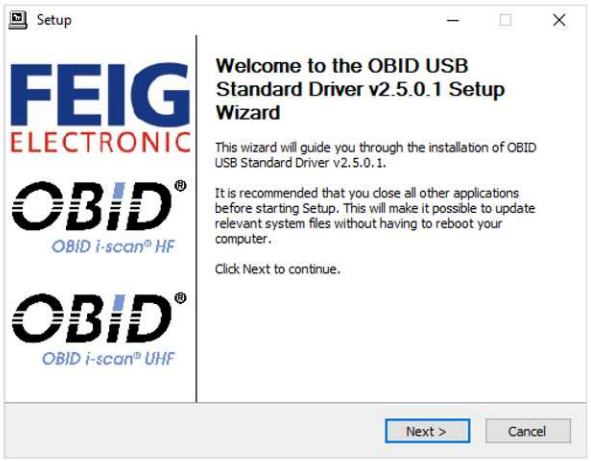


07: Select 'Next

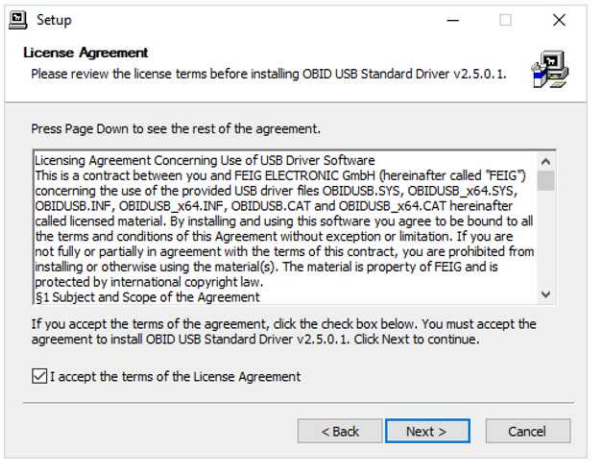


08: Select 'Finish'

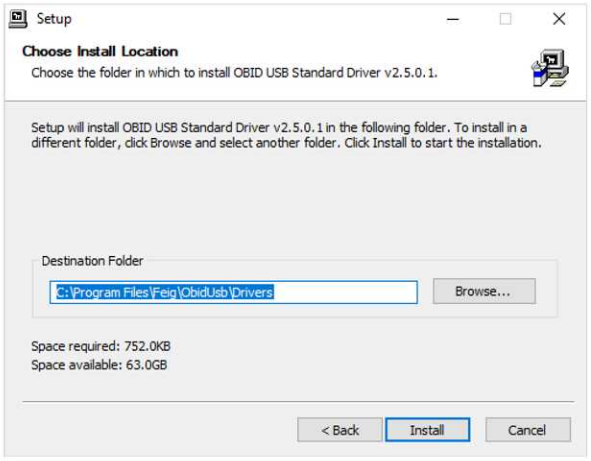
09: Select 'Yes'



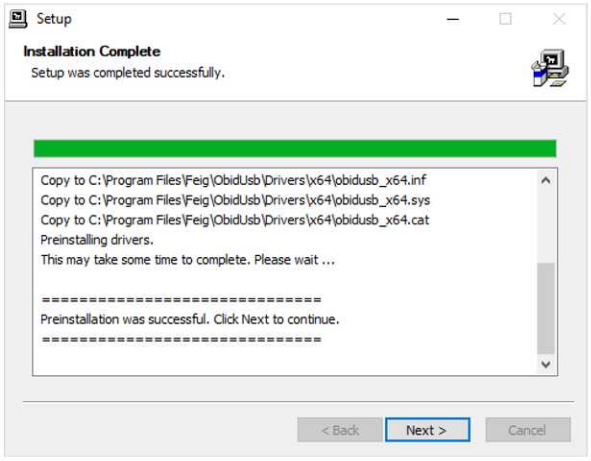
10: Select 'Next'



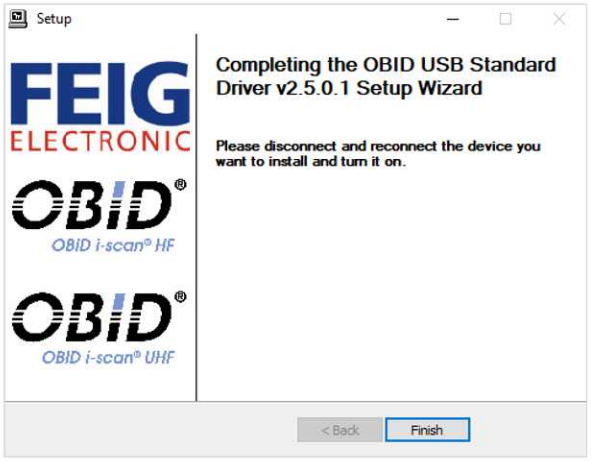
11: Tick the terms of license and select 'Next'



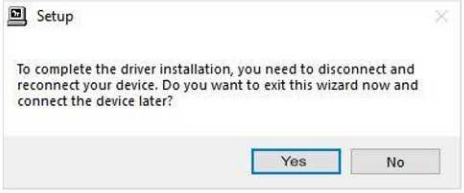
12: Select 'Install'



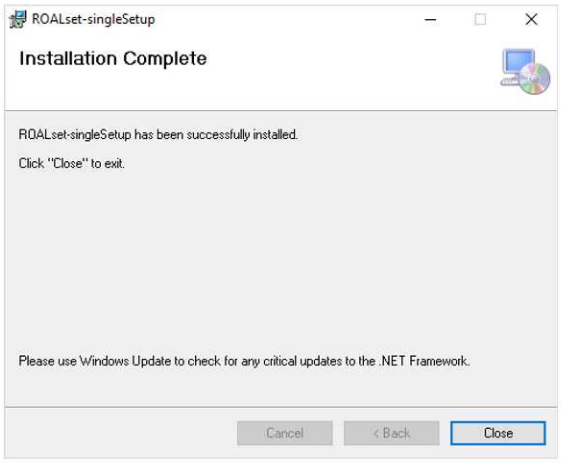
13: Select 'Next'



14: Select 'Finish'



15: Select 'Yes'



16: Select 'Close'

6. A new dedicated desktop icon and start menu folder will be created for direct software execution

4. SOFTWARE UPDATE

1. Uninstall the old software version.

Go to: Start→Control Panel→Programs and Features→ Programming Toolset→Click "Uninstall/Change" button.

2. Install the new software version, following the procedure from section 3.

5. CONNECTING TO TOOLS AND BASIC OPERATION

To utilize the PC software, it is required to connect the PC to one of the Programming Tools. In this manual it will described the operation with the following tools:

- ROALSET-Single – Refer to 5.2
- ROALSET-Multi – Refer to 5.2

The following section describe the required connections and basic functionality. Sections 7 then describe the usage of the software in detail.

5.1 RFID tools (ROALSET-Single and ROALSET-Multi)

The RFID PROGRAMMABLE Led drivers (see Table A) can be programmed by using the Toolset software (after V.1.5) and the ROALSET-Single or ROALSET-Multi RFID readers. This does not require the driver to be powered.

Using the ROALSET-Single Tool connected to the PC, the following is possible:

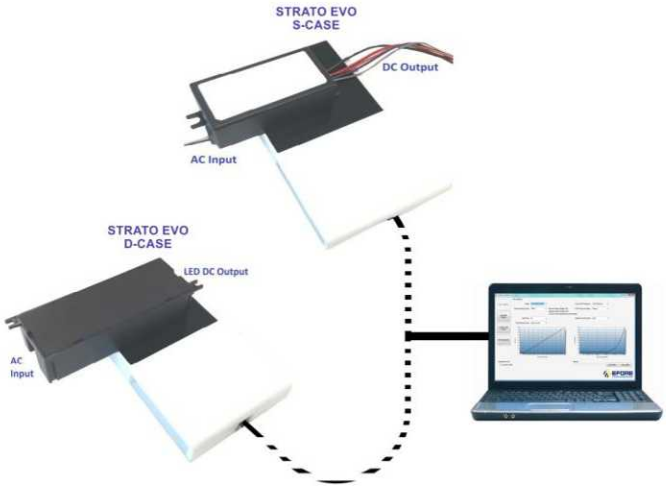
- Read all settings stored in the LED driver(s) (5.3)
- Transfer all settings from PC to the LED Driver(s) (5.4)
- Auto-mode programming (5.5)

Using the ROALSET-Multi Tool, the same features are possible, for the complete and unopened shipping box of LED Drivers. For STRATO EVO S-CASE it is 20 pieces and for STRATO-EVO D-CASE it is 16 pieces

Connecting the ROALSET-Single Tool

To connect the ROALSET-Single tool, simply plug the included USB cable from the tool and attach to the PC. No connections are required to the LED Driver.

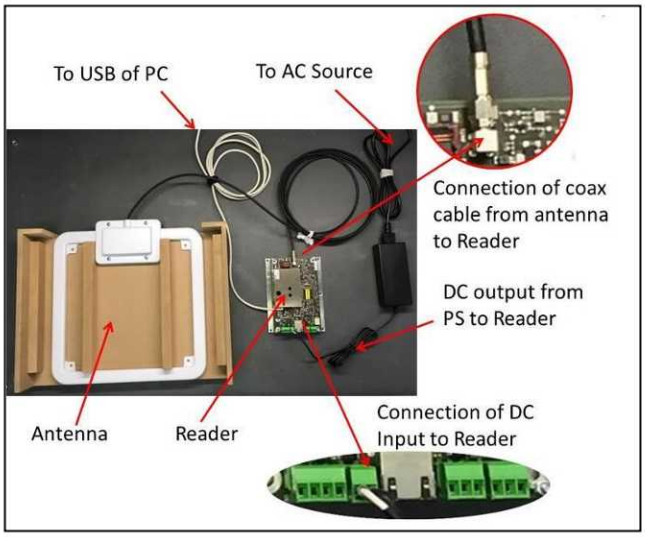
When using the ROALSET-Single tool, the individual drivers STRATO EVO S-CASE and D-CASE must be placed on the tool in the orientation shown below:



Connecting the ROALSET-Multi Tool

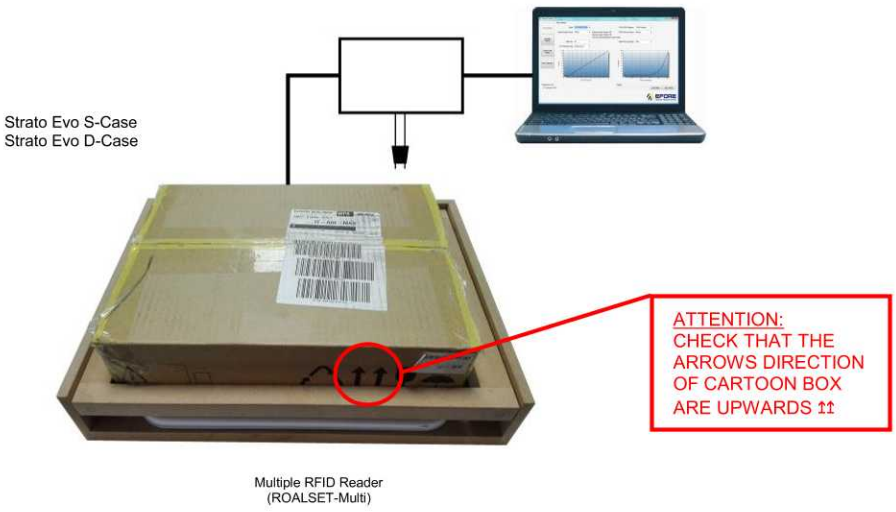
The ROALSET-Multi tool requires some assembly prior to the first use.

- Connect the coax cable from the Antenna to the Reader
- Connect the DC output from the power supply to the DC Input on the Reader
- Connect the USB cable from the Reader to the PC
- Connect the AC power cord from the Power Supply
- **Be sure the antenna and the reader are not in proximity to any metal surface (ideally put the antenna on wooden table)**



Once the ROALSET-Multi tool is properly connected, it can be used with the Toolset Software.
The multi pack shipping box is then placed onto the antenna/fixture as shown.

For Strato Evo boxes, it's need use the adapter for wooden table

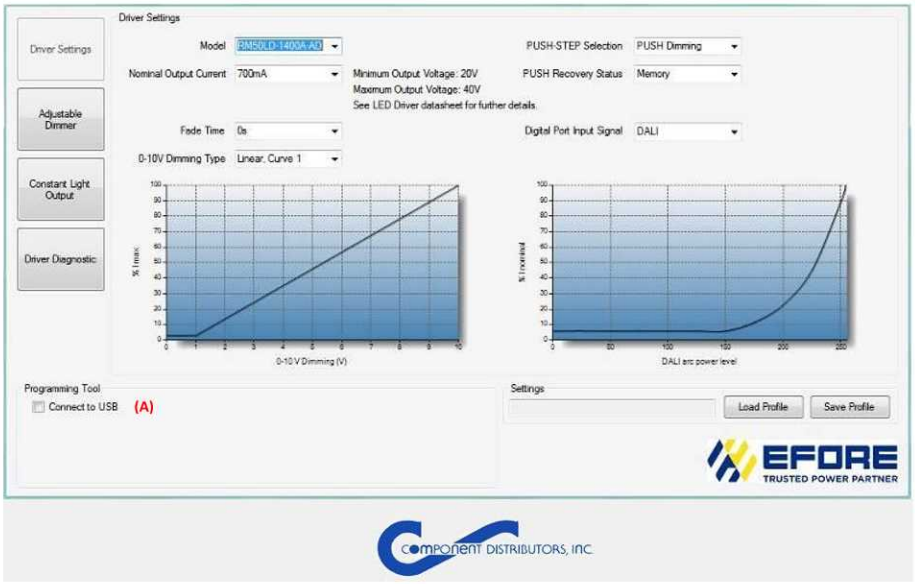


Multiple RFID Reader
(ROALSET-Multi)

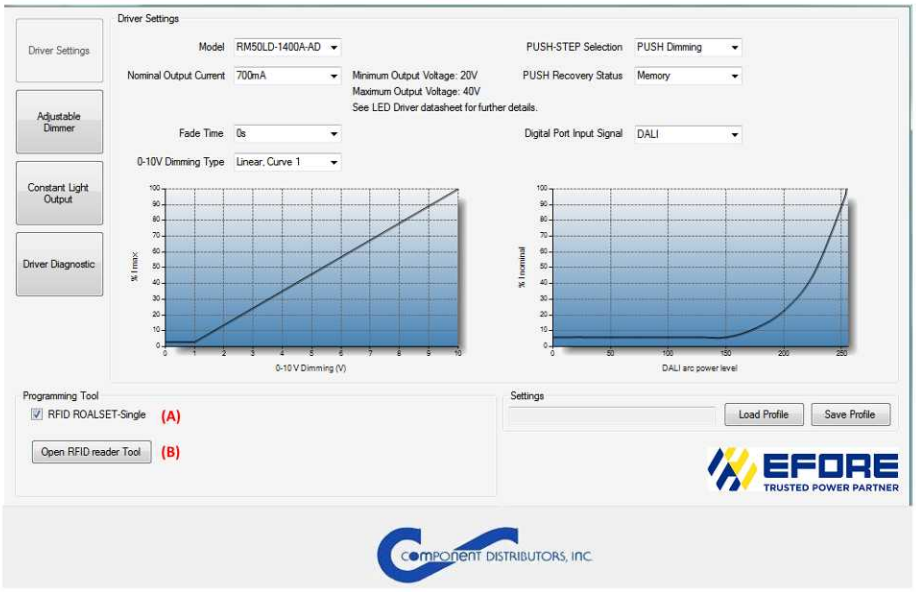
5.2 Connect ROALSET Tool to the PC and software:

This simple process is required to perform all functions of the ROALSET Tools with the Toolset software.

- Connect ROALSET-Single to the PC USB port
- Start the Toolset Software
- Tick "Connect to USB" **(A)** to establish the communication between the PC and the ROALSET Tool



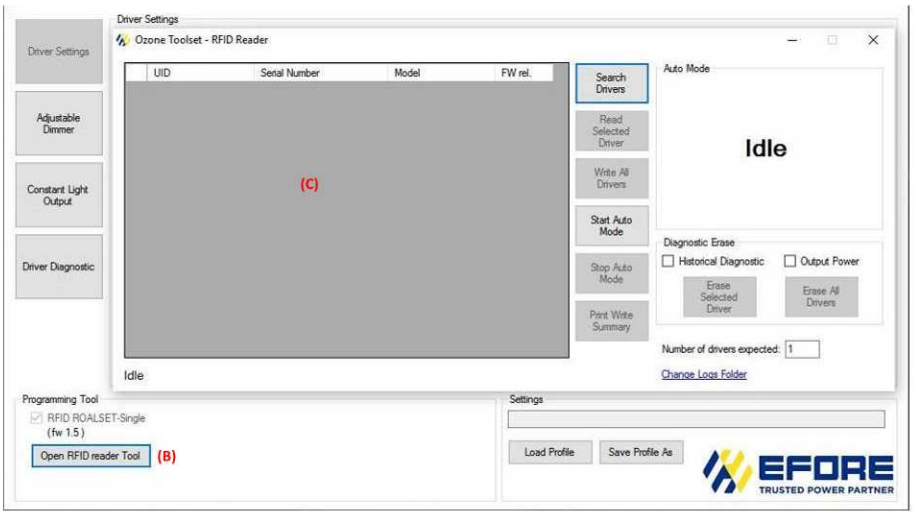
- The software will respond by indicating the RFID Reader tool is connected **(A)**, and display the Open RFID reader Tool button **(B)**



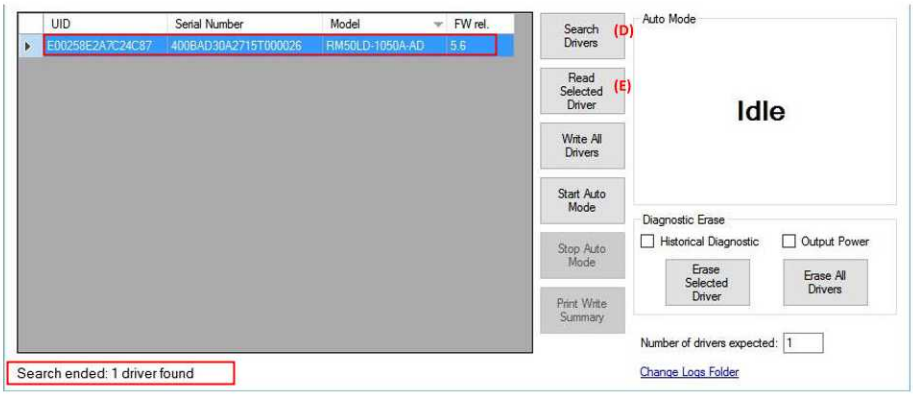
The Tool is now connected to the PC and software, and is ready for use.

5.3 Read all settings stored in the LED Driver(s)

- Complete steps from 5.2
- Click the Open "RFID reader Tool" button **(B)**. The RFID reader will open in a second window **(C)**



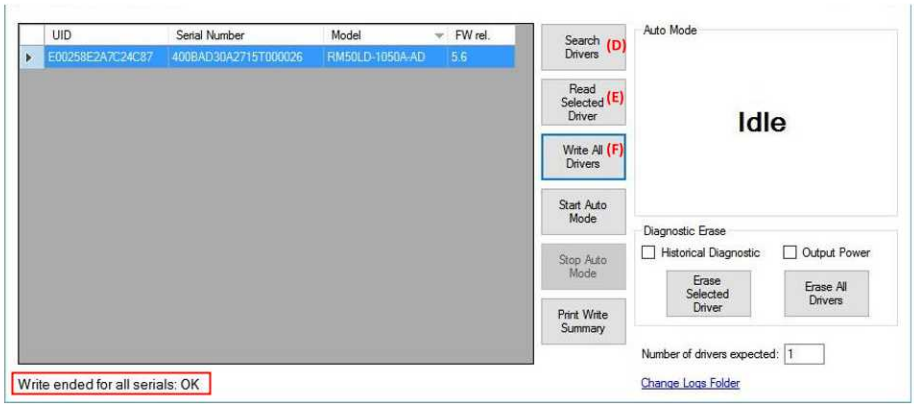
- Place a single driver on the ROALSET-Single tool and click the "Search Drivers" button **(D)**



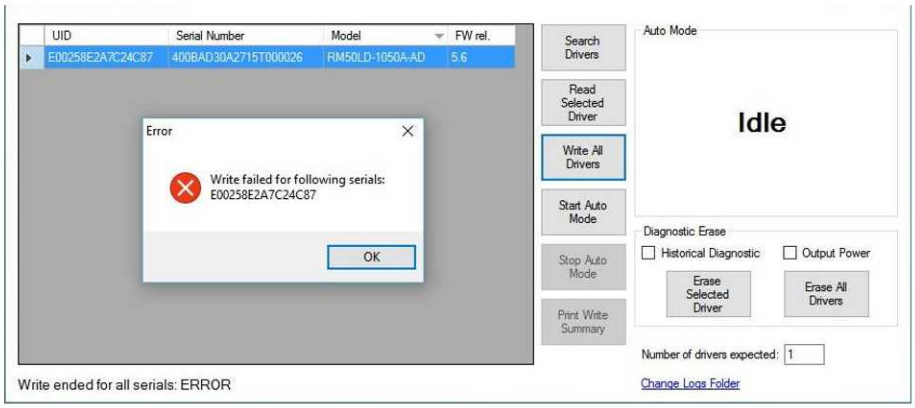
- The window will then display the basic details of the driver(s), such as Unit ID (UID), Serial Number, Model and FW Release
- In the lower right corner of the RFID Reader window, there is a box labeled "Number of drivers expected" and the default is 1. When searching multiple drivers, if this remains as 1, a pop up window will appear indicating the number of drivers found if it is different. To avoid this warning, enter the appropriate number of drivers expected (20 for STRATO EVO S-CASE, 16 for STRATO-EVO D-CASE for a complete box)
- By either moving the RFID window to the side, or clicking on the mainToolset window, the actual settings of the driver can be checked. If multiple drivers are listed, the first driver in the list will be shown in the mainToolset window. If it is desired to read a different driver in the list, select the appropriate driver in the list and then click the "Read Selected Driver" button **(E)**
- If the RFID Reader window is not in view, click the Open RFID Reader Tool button

5.4 To transfer all settings from PC to the LED Driver:

- Complete steps from 5.2
- On the mainToolset Software screen, select the appropriate settings for Driver Settings (Section 7).
- Click the Open RFID Reader Tool button, or select the window if already open
- If a list of drivers is not present, click the Search Driver button
- For a single driver programming click the “Write All Drivers” button **(F)**



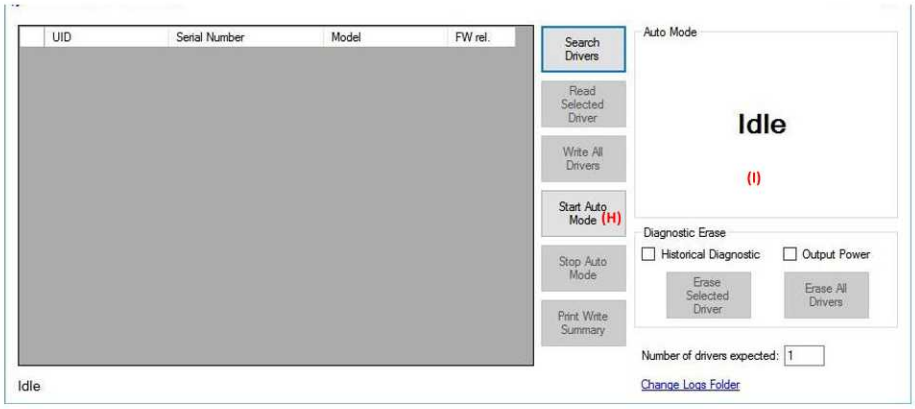
- When complete, a note will appear at the bottom of the window indicating the programming was OK
- An error window will pop up if the programming was not successful. In this case, repeat the programming attempt



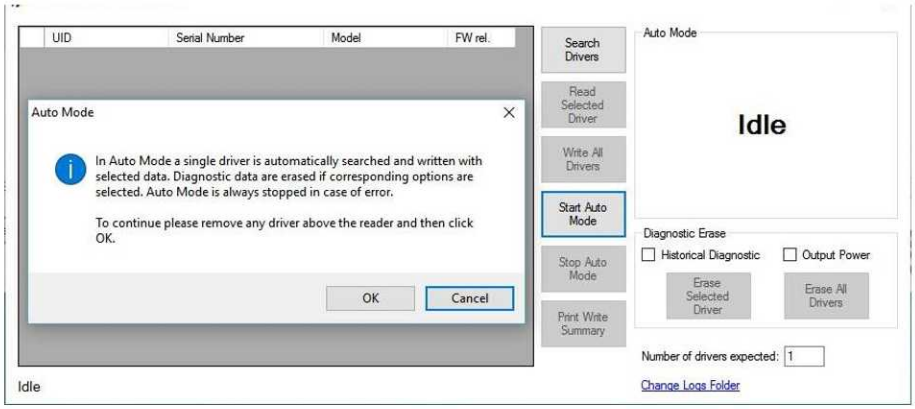
5.5 Auto Mode

Auto mode is used mainly with the ROALSET-Single tool when multiple drivers are to be programmed to the exact same settings. The software will automatically search for a single driver and when found will program the driver to the settings entered.

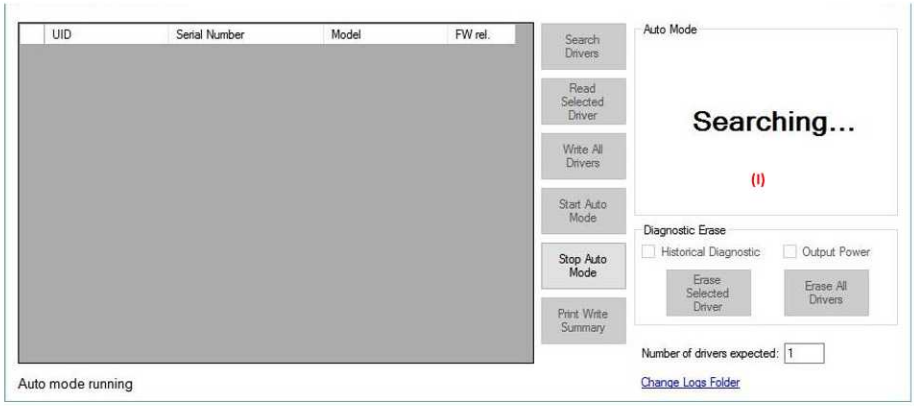
- Complete steps from 5.2
- On the main Toolset Software screen, select the appropriate settings for Driver Settings (Section 7).
- Click the Open RFID Reader Tool button, or select the window if already open
- Click the Start Auto Mode button **(H)**



- A window will pop up with a warning and confirmation of Auto Mode. Click OK to continue

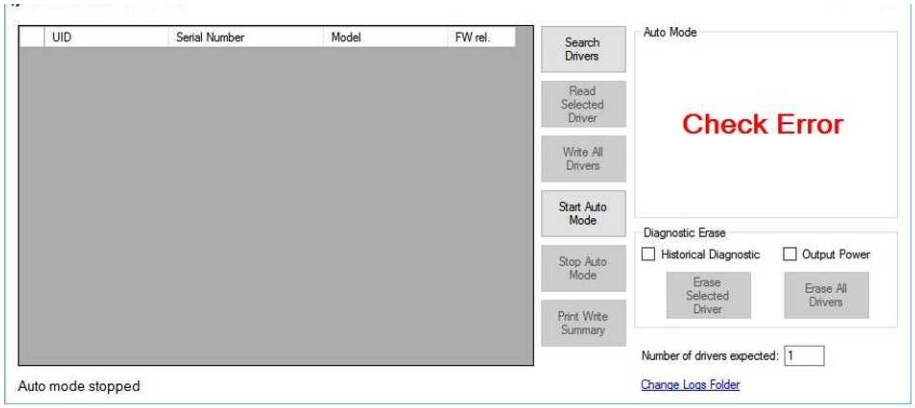


- The Auto Mode area of the window **(I)** will then change from Idle to Searching…

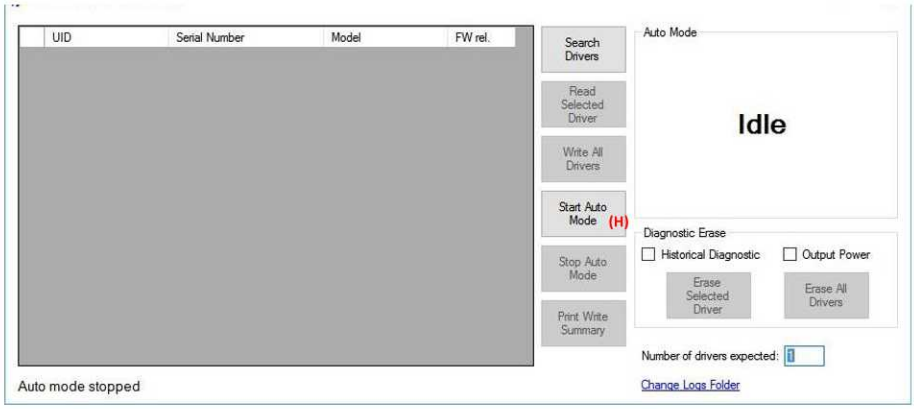


- With the driver in the proper orientation, move the driver over the ROALSET-Single reader. It can be moved from the side or from above. As it gets within range of the reader (~ 1 inch), the Auto Mode Area **(I)** will indicate “In Progress…” and then “Write OK”

- The driver is now programmed and can be set aside. Other drivers can be programmed in the same way
- If the driver is not programmed properly, the Auto Mode Area **(I)** will indicate an error, and the status will indicate Auto Mode stopped



- To continue programming in Auto Mode, the Start Auto Mode button must be clicked again

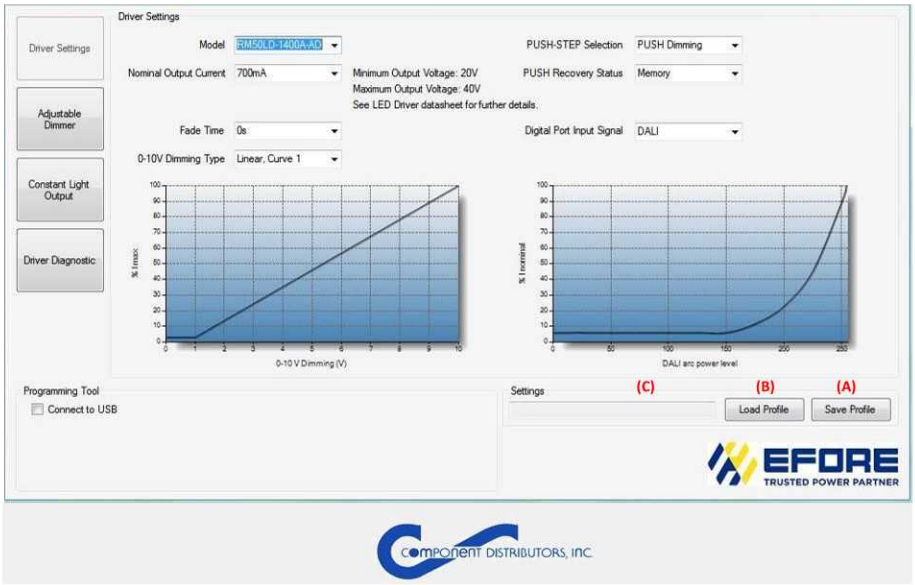


6. SAVE / LOAD PROFILES

The Toolset Software has a feature which permits the saving and loading of profiles. This allows a unique program to be input to the software, saved and used for production updating so all hardware is programmed the same without having to reenter the information multiple times, thus preventing errors.

6.1 Saving a Profile

- Load the Toolset Software
- Enter the settings for the driver using one of the below methods:
  - Using a driver with the appropriate settings, read the characteristics (refer to or 5.2 for ROALSET-Single)
  - Enter the driver settings in each tab (Driver Settings, Adjustable Dimmer, Constant Light Output)
- Click the Save Profile button **(A)**



- A Save Profile window will open. Select a file location and enter a filename, then click Save. The file path will then show up in the Settings box **(C)**

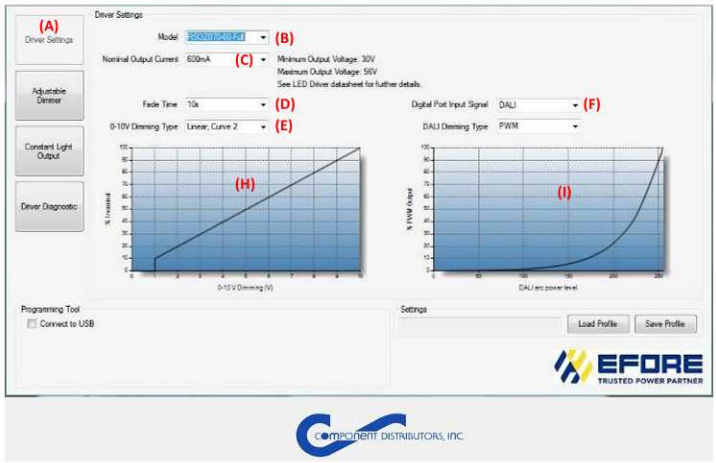
6.2 Loading a Profile

- Load the Toolset Software
- Click the Load Profile button **(B)**
- A Load Profile window will open. Locate the file to be used and click Open. The file extension will be ".ozt".
- The complete file path will be shown in the Settings Box **(C)**
- For the ROALSET tools, it is recommended to use the Auto Mode (5.4) to program the driver

7. LED DRIVER SETTINGS

The LED Driver Settings window permits the user to set the driver's features.

- Select the "Driver Settings" window by pushing button **(A)**
- Select the driver model **(B)**
- Set the nominal output current* **(C)**
- Set the fade time (D)
- Set the 0-10V Dimming Type **(E)**
- Chose the digital port input signal **(F)**



**High current settings may cause max output voltage level reduction due to power limitation (see driver datasheet for details).*

Based on selection done in **(E)**, you will see a graphical representation of your 0-10V dimming selection in **(H)**. Based on selections done in **(F)**, you will see a graphical representation of your digital dimming selection in **(I)**